In the Claims

Please amend claims as indicated in the following claim listing without prejudice and with a full reservation of rights to pursue such cancelled claims in this application, a continuation application, and/or another application.

1. (PREVIOUSLY PRESENTED) A method comprising:

aggregating at least a part of one or more mote-addressed content indexes from a first set of motes, wherein at least one mote in the first set of motes comprises a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality.

2. (CURRENTLY AMENDED) The method of Claim 1, wherein said aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

receiving at a second mote at least a part of one or more mote-addressed indexes of the first set of motes.

3. (CURRENTLY AMENDED) The method of Claim 1, wherein said aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

aggregating, on a second mote, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating sensing or control capabilities associated with the first set of motes;

creating at the second mote one or more multi-mote content indexes of the first set of motes.

4. (CURRENTLY AMENDED) The method of Claim 3, wherein said aggregating, on a second mote, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating sensing or control capabilities associated with the first set of motes;

creating at the second mote one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes.

5. (CURRENTLY AMENDED) The method of Claim 3, wherein said aggregating, on a second mote, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating sensing or control capabilities associated with the first set of motes;

creating at the second mote one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from a multi-mote registry.

6. (CURRENTLY AMENDED) The method of Claim 3, wherein said aggregating, on a second mote, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating sensing or control capabilities associated with the first set of motes;

creating at the second mote one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a pre-loaded listing of motes appropriate to at least one of the one or more multi-mote content indexes.

7. (CURRENTLY AMENDED) The method of Claim 3, wherein said aggregating, on a second mote, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating sensing or control capabilities associated with the first set of motes;

creating at the second mote one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from one or more motes to be included in the listing.

8. (CURRENTLY AMENDED) The method of Claim 3, wherein said aggregating, on a second mote, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating sensing or control capabilities associated with the first set of motes;

creating at the second mote one or more multi-mote content indexes of the first set of motes further comprises:

receiving at the second mote at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a reporting entity at a mote of the first set of motes.

9. (CURRENTLY AMENDED) The method of Claim 3, wherein said aggregating, on a second mote, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating sensing or control capabilities associated with the first set of motes;

creating at the second mote one or more multi-mote content indexes of the first set of motes further comprises:

receiving at the second mote at least a part of at least one of a mote-addressed routing/spatial index from a reporting entity at a mote of the first set of motes.

10. (CURRENTLY AMENDED) The method of Claim 1, wherein said aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

receiving at a second mote from the first set of motes at least a part of one or more multi-mote content indexes of the first set of motes.

11. (CURRENTLY AMENDED) The method of Claim 10, wherein said receiving at a second mote from the first set of motes at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

receiving at the second mote at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a multi-mote reporting entity at a mote of the first set of motes.

12. (CURRENTLY AMENDED) The method of Claim 10, wherein said receiving at a second mote from the first set of motes at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

receiving at the second mote at least a part of a mote-addressed routing/spatial index from a multi-mote reporting entity at a mote of the first set of motes.

13. (CURRENTLY AMENDED) The method of Claim 1, wherein said aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

creating an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes, wherein the one or more multi-mote content indexes include:

identifiers of devices available at a mote of the first set of motes, and

information indicating sensing and control capabilities associated with the devices.

14. (CURRENTLY AMENDED) The method of Claim 13, wherein said creating an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

aggregating on a second set of motes at least a part of at least one of a mote-addressed sensing index, a mote-addressed control index, or a mote-addressed routing/spatial index of a multi-mote content index of the first set of motes.

15. (ORIGINAL) The method of Claim 13, wherein said creating an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

aggregating at least a part of a mote-addressed routing/spatial index of a multi-mote content index.

16. (CURRENTLY AMENDED) The method of Claim 1, wherein said aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

migrating the aggregating to a first mote of the first set of motes;

installing a multi-mote index creation agent received from a second mote at the first mote; and

receiving at least a part of one or more mote-addressed content indexes of ~~a~~ the second mote with the multi-mote index creation agent installed on the first mote.

17. (CURRENTLY AMENDED) A mote ~~system~~ comprising:

an ~~aggregating device~~ agent to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes, wherein at least one mote in the first set of motes comprises a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality.

18. (CURRENTLY AMENDED) The ~~system~~mote of Claim 17, comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality, wherein said agent ~~aggregating device~~ to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

means for receiving with the device at least a part of one or more mote-addressed indexes of the first set of motes.

19. (CURRENTLY AMENDED) The ~~system~~mote of Claim 17, comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality, wherein said ~~aggregating device~~agent to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes is disposed on the device, and wherein the content indexes ~~further~~ comprises information indicating sensing or control capabilities associated with the first set of motes, and wherein the agent to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

means for creating, with the device, ~~one or more~~ multi-mote content indexes of the first set of motes.

20. (CURRENTLY AMENDED) The ~~system~~mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes.

21. (CURRENTLY AMENDED) The ~~system~~mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from a multi-mote registry.

22. (CURRENTLY AMENDED) The ~~system~~mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a pre-loaded listing of motes appropriate to at least one of the one or more multi-mote content indexes.

23. (CURRENTLY AMENDED) The ~~system~~mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from one or more motes to be included in the listing.

24. (CURRENTLY AMENDED) The ~~system~~mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for receiving with the device at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a reporting entity at a mote of the first set of motes.

25. (CURRENTLY AMENDED) The ~~system~~mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for receiving with the device at least a part of at least one of a mote-addressed routing/spatial index from a reporting entity at a mote of the first set of motes.

26. (CURRENTLY AMENDED) The ~~system~~mote of Claim 17, comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality, and wherein said ~~aggregating device~~agent to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

means for receiving with the device at least a part of one or more multi-mote content indexes of the first set of motes.

27. (CURRENTLY AMENDED) The ~~system~~mote of Claim 26, wherein said means for receiving with the device at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for receiving at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a multi-mote reporting entity at a mote of the first set of motes.

28. (CURRENTLY AMENDED) The ~~system~~mote of Claim 26, wherein said means for receiving with the device at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for receiving with the device at least a part of a mote-addressed routing/spatial index from a reporting entity at a mote of the first set of motes.

29. (CURRENTLY AMENDED) The ~~system~~mote of Claim 17, comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality, and wherein said aggregating device to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

means for creating with the device an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes, said multi-mote content indexes of the first set of motes including network addresses of devices coupled with the first set of motes.

30. (CURRENTLY AMENDED) The ~~system~~mote of Claim 29, wherein said means for creating with the device an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for aggregating at least a part of at least ~~one~~ two of a mote-addressed sensing index, a mote-addressed control index, or a mote-addressed routing/spatial index of a multi-mote content index.

31. (CURRENTLY AMENDED) The ~~system~~mote of Claim 29, wherein said means for creating with the device an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for aggregating at least a part of a mote-addressed routing/spatial index of a multi-mote content index.

32. (CURRENTLY AMENDED) The ~~system~~mote of Claim 17, further comprising means for migrating the agent to aggregate at least a part of one or more mote-addressed content indexes from the first set of motes from the mote to another mote, and wherein said ~~aggregating device~~agent ~~to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes~~ further comprises:

~~means for migrating the aggregating to a first mote of the first set of motes~~;

means for installing a multi-mote index creation agent ~~at the first~~on the another mote; and

means for receiving at least a part of one or more mote-addressed content indexes of a second mote of the first set of motes with the installed multi-mote index creation unit.

33. (CURRENTLY AMENDED) A system comprising:

a mote comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality; and

means for aggregating at least a part of one or more mote-addressed content indexes from a first set of motes, said means for aggregating being coupled with a reporting entity disposed proximate to said mote, said reporting entity being operable to report an aggregation of at least a part of one or more mote-addressed content indexes from the first set of motes.

34. (PREVIOUSLY PRESENTED) A system comprising:

at least one mote comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, and a sensing functionality; and

at least one multi-mote index creation agent resident in said at least one mote, said at least one multi-mote index creation agent configured to index at least a part of at least one mote-addressed content index including an index of content of other motes.

35. (CURRENTLY AMENDED) The system of Claim 34, wherein said at least one mote-addressed content index including an index of content of other motes further comprises:

at least one of a sensing function, and a control function~~, or routing/spatial information~~ of the mote-appropriate device.

36. (CURRENTLY AMENDED) The system of Claim 34, wherein said at least one mote further comprises:

a processor configured to execute the at least one multi-mote index creation agent to obtain at least one of a sensing function [,] or a control function~~, or routing/spatial information~~.

37. (CURRENTLY AMENDED) The system of Claim 34, wherein said at least one mote comprises:

~~at least one of~~ a processor, a memory, ~~or~~ and a communications device formed from a substrate.

38. (CURRENTLY AMENDED) A system comprising:

a first mote; and

at least one multi-mote registry resident in said first ~~one~~ mote, said at least one multi-mote registry having one or more indicators of a second mote's content to be indexed.

39. (CURRENTLY AMENDED) The system of Claim 38, wherein the one or more indicators of a second mote's content to be indexed comprise:

content stored on the second mote; and

one or more mote-network addresses of the second mote's content.